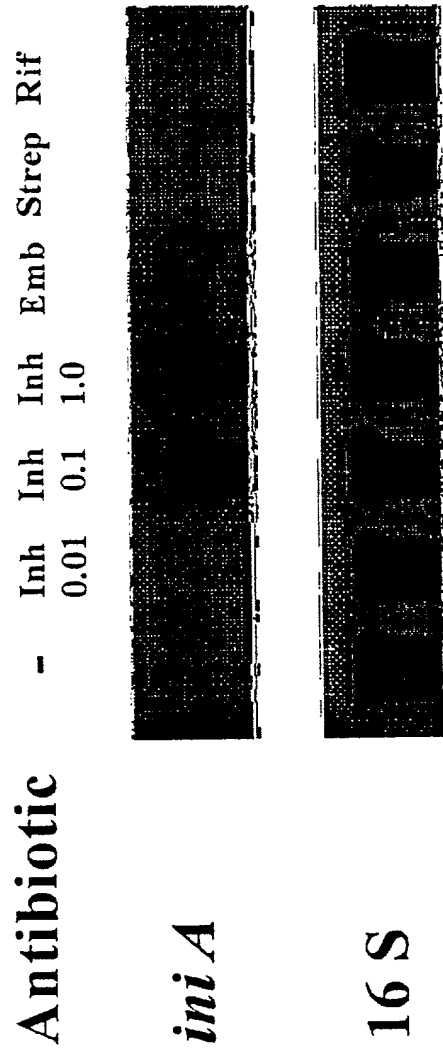
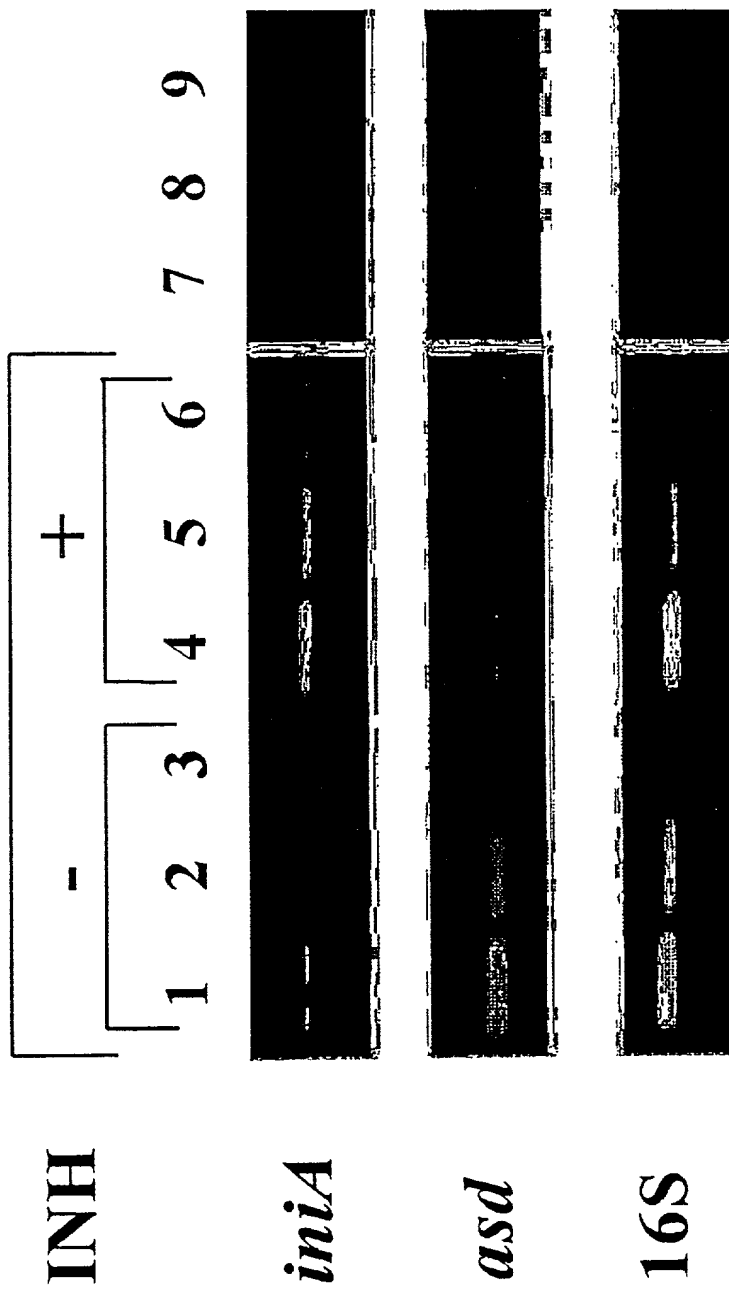


Figure 1



7.



Strain	BCG S	BCG R
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
49	100	100
50	100	100
51	100	100
52	100	100
53	100	100
54	100	100
55	100	100
56	100	100
57	100	100
58	100	100
59	100	100
60	100	100
61	100	100
62	100	100
63	100	100
64	100	100
65	100	100
66	100	100
67	100	100
68	100	100
69	100	100
70	100	100
71	100	100
72	100	100
73	100	100
74	100	100
75	100	100
76	100	100
77	100	100
78	100	100
79	100	100
80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

FIN

1

+

1

+

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

iniA

165

Figure 3

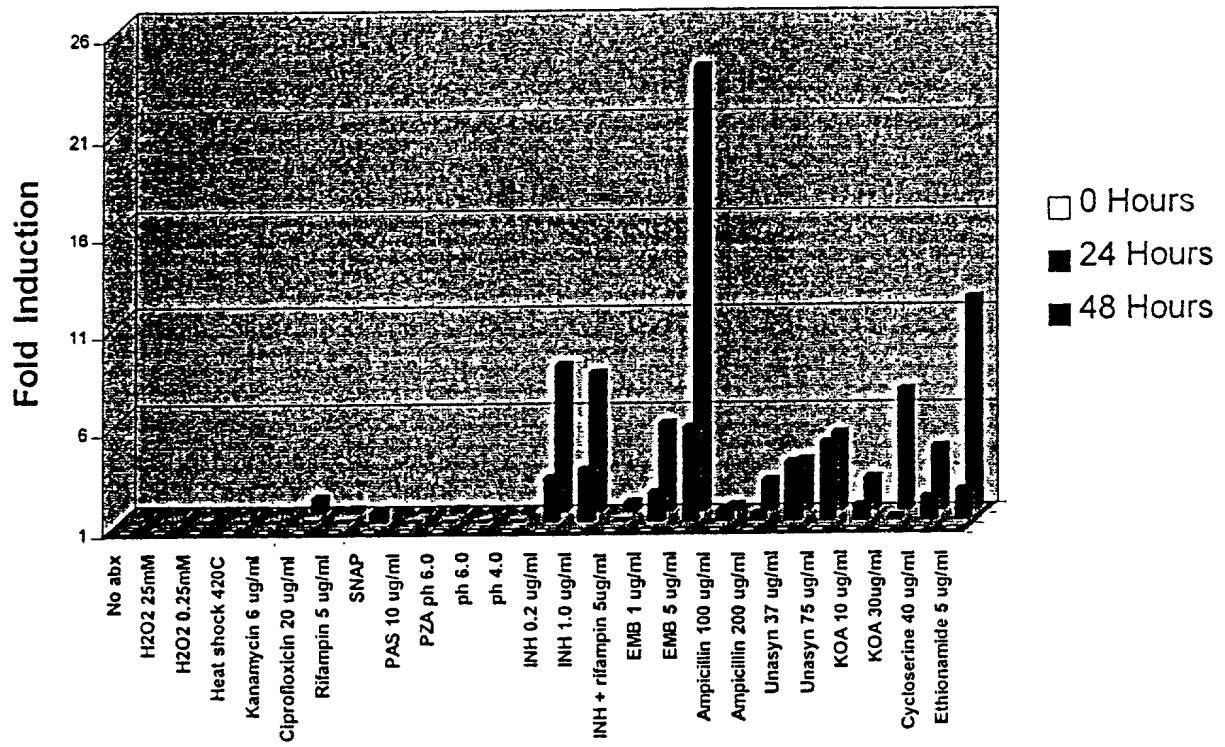


Figure 4

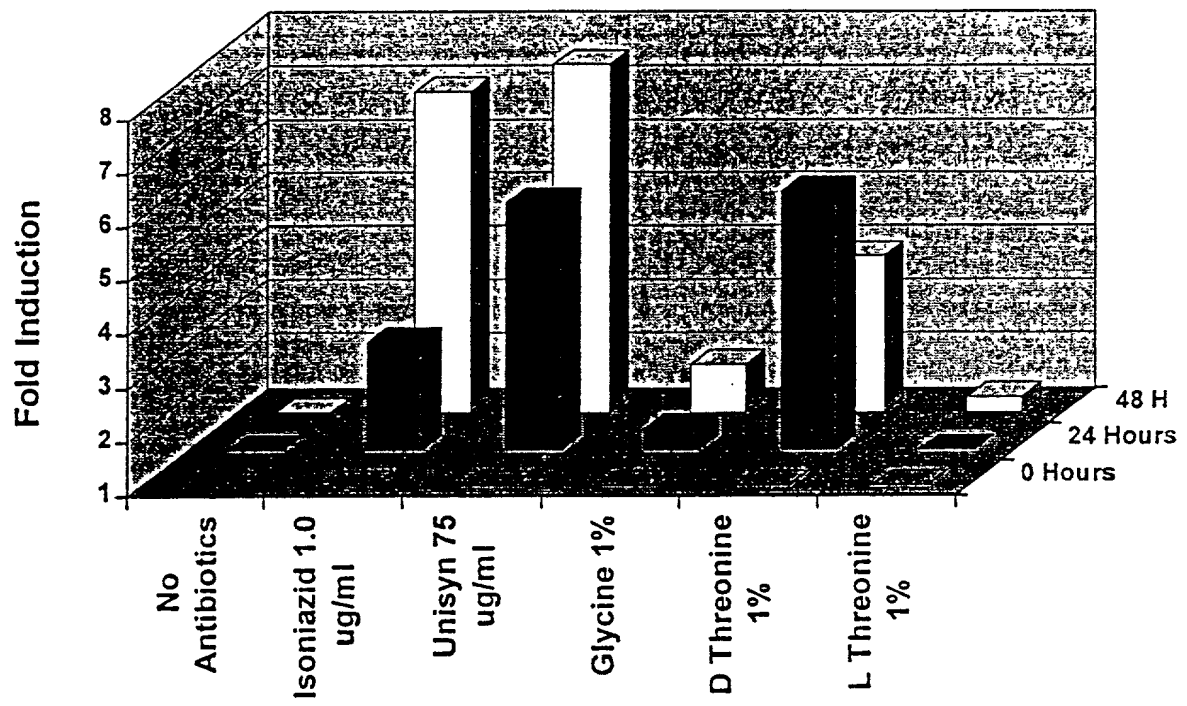


Figure 5

Luciferase induction by iniA promoter

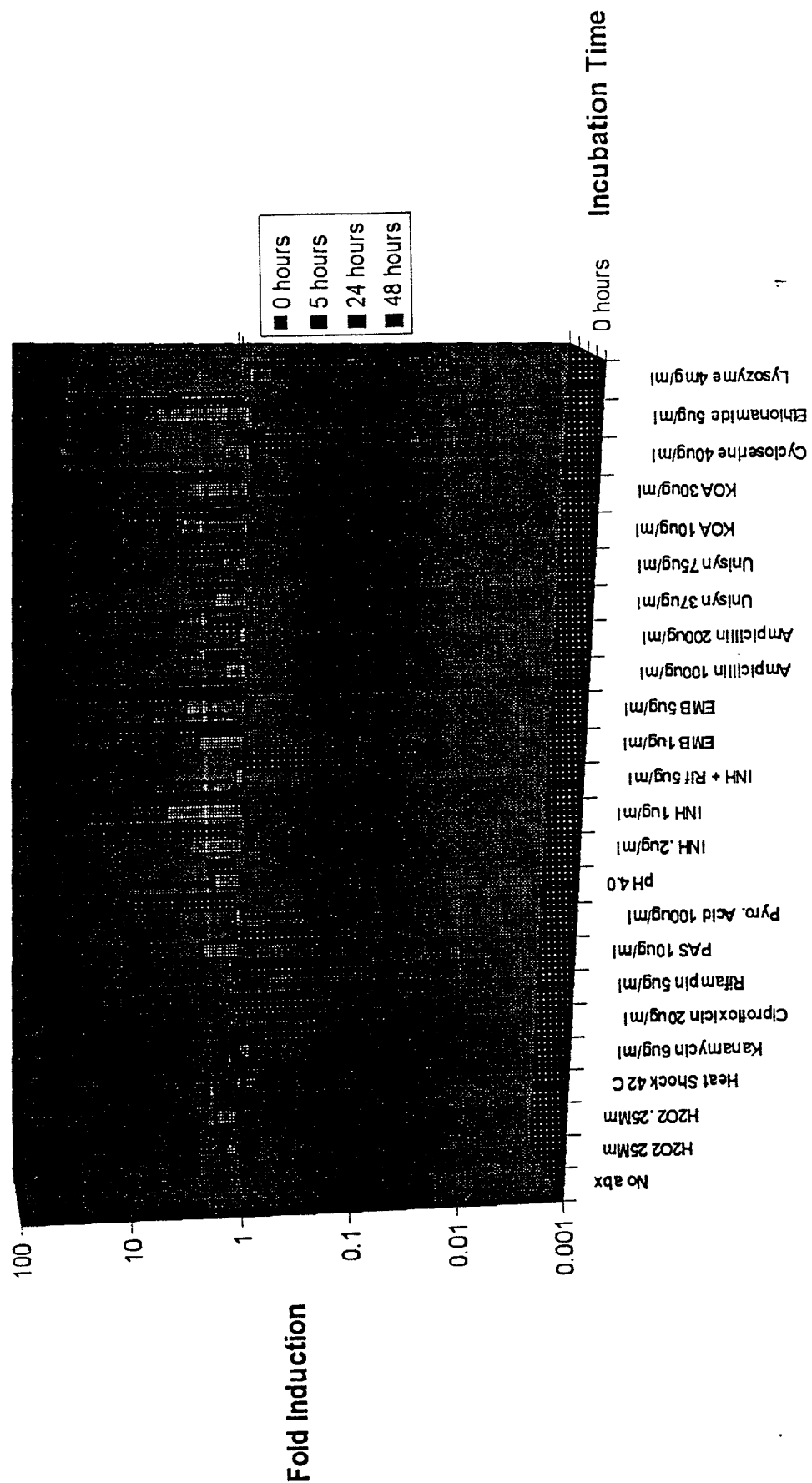


Figure 6A

Cosmid MTCY279:

9048 cac ggctacgaca
9061 tccacggata agttccggac cggcgtaggg gtgccccatt

Cosmid MTY13E10:

1 tcccctaate ccctaacgcg gcggccaggc cgateccgat aggtgtttgg ccggttgcg
61 gatcagaccc cgatttcggg gtgaggcgga atccatagcg tcgatggcac agcgccggtc
121 acgcccggca acagcttctt cgattgaagg gaaatgaaga tgacctcgt tategattac
181 atcctgagcc tgttcgcag cgaagacgcc gcccggtcgt tcgttgccgc tccgggacgg
241 gccatgacca gtgccgggct gatcgatate gcgcgcacc aaatctcgc ggtggcgggc
301 aatgtgtgc cgggtctgaa tctgggtgcc ggcgaccca tgagcggatt gcgcagggc
361 gtcgccgctc ggcatggctt tgcgcaggac gtcgccaatg tcggcttcgc cgtgacgcg
421 ggcgcggggg tgcaagcgt catcacgacc gatgtcgtg cgggctggc tagcggactg
481 ggtgctgggt tcctgggtca ggggtggctg gctctcgccg cgtcaagcgg tggttcggc
541 ggtcaggtcg gcttggtcgc ccaggctcgt ctgggtttta ctgccgtgat tgaggccgag
601 gtcggcgctc aggttggtgc tgggttaggt attgggacgg gtctgggtgc tcaggccggt
661 atgggctttg gcggcggggg tggcctgggt ctgggtggtc aggcggcgcg tgtgatcgt
721 gggagcgcgg ccggggctat cgtgcccgc gtcggcggtc gcctaggcgg caatggccag
781 atcggagttg ccggccaggg tgcgttggc gctggtgctg gcctggtgt cggcgccag
841 gcgggcatcg ctaccagat cgtgtctca gccggtggtg ggctcggcg cgctcgcaat
901 gtcagcgcc tgaccggggt cagcagcaac gcagtgttg ctccaacgc aagcgccag
961 gcggggttga tcgccagtga aggcgtgcc ttgaacggcg ctgctatgcc tcctctgct
1021 ggcccgttag ccggtgctcg tgtgggtggt caggccggcg ccgctggcg cgccgggtg
1081 ggcttcggag cgttcgggca cccgactcct cagccggcg cctggggcg ggctggcgtg
1141 gtggccaaga ccgaggcggc tgctggagt gttggcgggg tcggcggggc aaccgcgcc
1201 ggggtcggcg gggcacacgg cgacatcctg ggccacgagg gagccgact gggcagtg
1261 gacacggtca acgcccgtgt cagcccgc gagcatggt tggctctgcc cagtggccc
1321 ctgatccacg gcgtaccgg cggctatggc ggcataacc gccagtgac cgatgcgcg
1381 gcaccgcaag ttccggcgcg ggcccagccg atgaccacgg cggccgagca cacccggcg
1441 gttaccaaac cgcagcacac gccggtcgag ccgcccgtcc acgataagcc gccagccat
1501 tcggtgttg acgtcggtca cgagccgcg gtgacgcaca cgcgcggcg gccatcgaa
1561 ctgccgtcgt acggcctttt cgactacce gggttctgat tcgcgagccg atttcagaa
1621 ccggtgggga cgttcatggt cccgcgggt ttgtgcgat accgtgatct gaggcgtaaa
1681 cgagcgagaa agtggggcga cacggtgacc cagccgatg accacgtcg ggtcggtgtg
1741 atcgtcgaac tgatcgatca cactatgcc atcgccaaac tgaacgagcg tggatgcta
1801 gtacagcgtg tgacgcgggc tcgccagcgg atcaccgacc cgcaggtccg tgtggtgatc

Figure 6B

1861 gccgggctgc tcaaacaggg caagagtcaa ttgctcaatt cgttgctcaa cctgcccgcg
1921 ggcgcagtag gcatgacga ggccaccgtg gtgatcaccg tcgtaagcta cagcgcccaa
1981 ccgtcgccc ggcttgctt ggccgcccgg cccgacggga caaccgcagc ggttgacatt
2041 cccgtcgatg acatcagcac cgatgtgctg cgggctccgc acgccggtgg ccgcgaggtg
2101 ttgcgggtcg aggtcggcgc gccagcccgc ctgctgcccgc gcgggctggc gtttatcgat
2161 actccgggtg tggcgccct cggacagccc cactgtcgg cgacgtggg gctgctaacc
2221 gaggccgatg ccgtcttggg ggtcagcgac accagccagg aattaccga acccgagatg
2281 tggttcgtgc ggcaggccca ccagatctgt ccggtcgggg cggctgtggc caccaagacc
2341 gacctgtatc cgcgtggcg ggagatcgtc aatgccaat cagcacatct gcagcgggcc
2401 cgggttccga tgccgatcat cgcagtctca tctgttgc gcagccacgc ggtcacgtt
2461 aacgacaaag agtcaacga agagtccaac ttccggcga tcgtaagtt tctcagcgag
2521 caggtgctt cccgcgcgac ggagcgagt cgtgtgggg tactcggcg aatacgttcg
2581 gcaacagagc aattggcggg gtctctaggt tccgaactat cgggtgtcaa cgacccgaac
2641 ctccgtgacc gactgtctt ggatttgag cggcgcaaac gggaagccca gcaggcggg
2701 caacagacag cgctgtggca gcaggtgtg ggcgacggg tcaacgacct gactgtgac
2761 gtggaccacg acctacgaac ccgttccgc accgtaccg aagacgccga gcgccagatc
2821 gactctgtg acccgactgc gattgggcc gagattggca acgacgtcga gaatgcgatc
2881 gccacagcgg tcggcgacaa ctctgttgg gcataccagc gtccgaagc gttggccgac
2941 gacgtcgtc gctctttgc cgacgcggg ttgactcgg tctgtcagc agagctgagc
3001 cccacgtca tgggcaccga ctccggccg ctcaaagcgc tgggccggat ggaatcgaaa
3061 ccgtgcgcc ggggccataa aatgattatc ggcatgcggg gtctctatgg cggcgtggc
3121 atgattggca tgctgtcgtc ggtgtcgga ctgggtgt tcaaccgct atcgggtggg
3181 gccgggtga tctcggccg gatggcatat aaagaggaca aacaaaaccg gttgtcggg
3241 gtgcgcagcg aggccaaggc caatgtcgg cgcttcgtc acgacattc gttcgtcgtc
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3361 gagatcgccg aagagatcac ccgtcgtc accgagtcg tgcaggcgac catcgcgcg
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3481 atctgagcc aggtcaacga caacctgcc ggcttgagc caacctgac gcccgggcg
3541 agcttgggac gagcgtgagc accagcgacc gggtcgcgc gattctgcac gcaacctcc
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3781 aggccaccg gatttgacc tggttccggc acggtccgac accgcgggtc accccaacc
3841 atcgcgcgcg tcgacgcgc aacgtgccga tcaccgtcg gggcgggctg agtttcgacc
3901 tgcgcaggat caaccggcc gagctgatc acctggaagt cgagtggcca gccaggaac
3961 tcatcgacgc caccattgtt gacaccccg gaacgtcgtc gttggcatgc gatgcctccg
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4141 tcggcggggc ggtgggagc ctgggcatca tcggggtggc gtctcgcgc gatgagatcg
4201 gcgcggggcg catcgacgc atgtctcgg ccaacgacgt ggccaagcgg ttcaccgcg
4261 aactgaacca gatgggcatt tgccaggcgg tgggtccgg atccggactt cttgcgtga

Figure 6C

4321 ccgcgcgcac actgcgccag accgagttca tcgcgctgcg caagctggcc ggtgccgagc
4381 gcaccgagct caatagggcc ctgctgagcg tggaccgttt tgtgcgccgg gacagtccgc
4441 taccggtgga cgcggggcatc cgtgcgcaat tgctcgagcg gttcggcatg ttcggcatcc
4501 ggatgtcgat tgccgtgctg gcggccggcg tgaccgattc gaccgggctg gccgccgaac
4561 tgctggagcg cagcgggctg gtggcgctgc gcaatgtgat agaccagcag ttcgcgcagc
4621 gctccgacat gcttaaggcg cataccgctt tggctcctt gcgccgattc gtgcagacgc
4681 atccggtgcc ggcgaccccg tacgtcattg ccgacatcga cccgttgcta gccgacacc
4741 acgccttcga agaactccga atgctaagcc tttgccttc gcgggcaacg acattgaacg
4801 acgacgaaat cgcgtcgctg cgccgcatca tcggcggggtc gggcaccagt gccgccgctc
4861 ggctgggcct ggatcccgcg aattctcgcg agggcccgcg cgccgcgctg gccgcagcgc
4921 aacactggcg tcgccgtgcg gcgcatccac tcaacgatcc gttcactacc agggcctgtc
4981 gcgcggcggt gcgcagcgcc gaggcgatgg tggcggagtt ctctgctcgc cgctga

52960.1

Figure 7

Rv0341 (iniB)

MTSLIDYILSLFRSEDAARSFVAAPGRAMTSAGLIDIAPHQISSVAANVVPGLNLGAGDPMSGL
RQAVAAARHGFAQDVANVGFAGDAGAGVASVITTDVGAGLASGLGAGFLGQGGLALAASSGG
FGGQVGLAAQVGLGFTAVIEAEVGAQVGAGLGIGTGLGAQAGMGFGGGVGLGLGGQAGGVI
GGSAAAGAIGAGVGGRLGGNGQIGVAGQGAVGAGVGAGVGGQAGIASQIGVSAGGGGLGGVGN
VSGLTGVSSNAVLASNASGQAGLIASEGAALNGAAMPHLSGPLAGVGVGGQAGAAGGAGLG
FGAVGHPTPQPAALGAAGVVAKTEAAAGVVGGVGGATAAGVGGGAHGDILGHEGAALGSVDT
VNAGVTPVEHGLVLPSPGLIHGGTGGYGGMNPPVTDAPAPQVPARAQPMTTAAEHTPAVTQ
PQHTPVEPPVHDKPPSHSVFDVGHEPPVTHTPPAPIELPSYGLFGLPGF

Rv0342 (iniA)

MVPAGLCAYRDLRRKRARKWGDTVTQPDDPRRVGVIVELIDHTIAIAKLNERGDLVQRLTRA
RQRITDPQVRVVIAGLLKQKQSLLNSLLNLPAARVGDDEATVVITVVSYSQAQPSARLVLAAGP
DGTTAAVDIPVDDISTDVRRAPHAGGREVL RVEVGAPSPLLRGGLAFIDTPGVGGLGQPHLSA
TLGLLPEADAVLVSDTSQEFTPEMWFVRQAHQICPVGAVVATKTDLYPRWREIVNANAHH
LQRARVPMPIIAVSSLLRSHAVTLNDKELNEESNFPAIVKFLSEQVLSRATERVRAGVLGEIRSA
TEQLAVSLGSELSVNDPNLRDRLASDLERRKREAQQAVQQTALWQQVLGDGFNDLTADVD
HDLRTRFRFTVTEDAERQIDSCDPTAHWAEIGNDVENAIATAVGDNFVWAYQRSEALADDVA
RSFADAGLDSVLSAELSPHVMGTDFGRKALGRMESKPLRRGHKMIIGMRGSYGGVVMIGML
SSVVGGLGLFNPLSVGAGLILGRMAYKEDKQNRLLRVRSEAKANVRRFVDDISFVVSQKSRDRL
KMIQRLLRDHYREIAEEITRSLTESLQATIAAAQVAETERDNRIRELQRQLGILSQVNDNLAGL
EPTLTPRASLGRA

Rv0343 (iniC)

MSTSDRVRAILHATIQAIRGAPAYRQRGDVFCQLDRIGARLAEPLRIALAGTLKAGKSTLVNAL
VGDDIAPTDATEATRIVTWFRHGPTPRVTANHRGGRRANVPITRRGGLSFDLRRINPAELIDL
EVEWPAEELIDATIVDTPGTSSLACDASERTLRLVPADGVPRVDAVFLRLTNAADVALLKQI
GGLVGGSVGALGIIGVASRADEIGAGRIDAMLSANDVAKRFTREL NQMIGICQAVVPVSGLLAL
TARTLRQTEFIALRKLGAERTELNRALLSVDRFVRRDSPLPVDAGIRAQLLERFGMFGIRMSI
AVLAAGVTDSTGLAAELLERSGLVALRNVIDQQFAQRSDMLKAHTALVSLRRFVQTHPVPATP
YVIADIDPLLADTHAFEELRMLSLLPSRATTLNDDIASLRRIIGSGTSAAARLGLDPANSREA
PRAALAAAQHWRRRAAHPLNDPFTTRACRAAVRSAEAMVAEFSARR